Family Name: ....

Other Names: ....

Signature: ....

Student Number: ....

THE UNIVERSITY OF NEW SOUTH WALES
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Sample Examination

COMP 3411 Artificial Intelligence
COMP 9414 Artificial Intelligence
COMP 9814 Extended Artificial Intelligence

Exam Duration: 2 hours

Reading Time: 10 minutes

This paper has 12 pages including this cover page.

COMP9414 Students should answer only Questions 1 to 10

COMP3411/9814 Students should answer ALL Questions (1 to 11)

Authorised materials:

- Approved Calculator.

Instructions to Students:

- This paper counts for 60% of your final grade.

- Write answers in ink, in the script books provided.

- Hand in question paper and script books when you are finished.

- All questions may be attempted.

- Start your answer to each question on a new page.

Question 1.

ENVIRONMENT TYPES

… AND / OR …

AGENT TYPES

(SIMILAR TO WEEK 2 EXERCISES)

Question 2.

PROLOG PROGRAMMING

(SIMILAR TO WEEK 1/2 PROLOG EXERCISES)

Question 3.

PATH SEARCH

(SIMILAR TO WEEK 3 EXERCISES)

Question 4.

HEURISTIC PATH SEARCH

(SIMILAR TO WEEK 4 EXERCISES)

Question 5.

GAMES

(SIMILAR TO WEEK 5 EXERCISES)

Question 6.

LEARNING AND DECISION TREES

(SIMILAR TO WEEK 6 EXERCISES)

Question 7.

PERCEPTRONS AND NEURAL NETWORKS

(SIMILAR TO WEEK 7 EXERCISES)

Question 8.

CONSTRAINT SATISFACTION

(SIMILAR TO WEEK 8 EXERCISES)

Question 9.

Propositional and First-Order Logic

(similar to Week 9 Exercises)

Question 10.

UNCERTAINTY AND PROBABILITY

(SIMILAR TO WEEK 10 EXERCISES)

Question 11.

REACTIVE AGENTS

… AND / OR …

EVOLUTIONARY COMPUTATION

… AND / OR …

REINFORCEMENT LEARNING

(SIMILAR TO WEEK 2, 6, 7 EXERCISES)